

What is claimed is:

1. A method of positioning a disk-shaped medium,
comprising the steps of:
inserting a cylindrical hub into a center hole of the disk-shaped
medium; and

covering a hub adaptor, which is eccentrically fixed to a rotary
shaft, with the hub so as to position the disk-shaped medium on the rotary
shaft,

characterized in that directions of eccentricity of the disk-shaped
medium, the hub and a hub unit are defined on the basis of amount of
eccentricity between the disk-shaped medium and the hub, that between
the hub and the hub adaptor and that between the hub adaptor and the
rotary shaft, whereby the center of the disk-shaped medium with respect
to the rotary shaft is positioned at a prescribed position.

2. The method according to claim 1,

wherein the amount and the direction of eccentricity of the
disk-shaped medium with respect to the rotary shaft are defined by
biasing the disk-shaped medium toward the hub and making an inner face
of the center hole of the disk-shaped medium contact with an outer face
of the hub,

the amount and the direction of eccentricity of the hub respect to
the hub adaptor are defined by biasing the hub toward the hub adaptor
and making an inner face of the hub contact with an outer face of the hub
adaptor, and

the directions of eccentricity of the disk-shaped medium, the hub
and the hub unit are defined by rotating the hub adaptor, without fixing
the hub to the hub adaptor, in a prescribed angle with respect to the rotary

shaft.

3. The method according to claim 2,
wherein the rotary shaft is rotated by a motor, and
rotational angle of the rotary shaft is controlled by a motor driver
so as to rotate the hub adaptor in the prescribed angle.

4. The method according to claim 3,
wherein amount of correcting the eccentric directions of the
disk-shaped medium, the hub and the hub adaptor in are calculated on the
basis of dimensions of the disk-shaped medium, dimensions of parts of
the hub and the hub adaptor, and the amount of the eccentricity of the hub
adaptor with respect to the rotary shaft, and
the amount of correcting the eccentric directions are inputted to the
motor driver so as to correctly position the disk-shaped medium.

5. The method according to claim 2,
wherein a plurality of the disk-shaped media are biased toward the
hub from the same direction so as to simultaneously position the
disk-shaped media.

6. The method according to claim 2,
wherein the center of the disk-shaped medium is positioned with
respect to the rotary shaft by adjusting two of the amount of eccentricity
between the disk-shaped medium and the hub, that between the hub and
the hub adaptor and that between the hub adaptor and the rotary shaft.